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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,194	06/23/2003	Yoshi Ono	SLA 0669	9996
7590 12/10/2004			EXAMINER	
David C. Ripma Patent Counsel Sharp Laboratories of America, Inc. 5750 NW Pacific Rim Boulevard Camas, WA 98607			NGUYEN, KHIEM D	
			ART UNIT	PAPER NUMBER
			2823	
			DATE MAILED: 12/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Advisory Action	10/602,194	YOSHI ONO				
Advisory Action	Examiner	Art Unit				
	Khiem D Nguyen	2823				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE REPLY FILED 15 November 2004 FAILS TO PLACE Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may only be either: (condition for allowance; (2) a timely filed Notice of Appears Examination (RCE) in compliance with 37 CFR 1.114.	void abandonment of this application in the same of this application and the same of the s	cation. A proper reply to a ich places the application in				
PERIOD FOR RE	PLY [check either a) or b)]					
a) The period for reply expires 3 months from the mailing date of b)  The period for reply expires on: (1) the mailing date of this Advevent, however, will the statutory period for reply expire later the ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f).  Extensions of time may be obtained under 37 CFR 1.136(a). The dath have been filed is the date for purposes of determining the period of extensions of time may be obtained under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened (b) above, if checked. Any reply received by the Office later than three movement patent term adjustment. See 37 CFR 1.704(b).	isory Action, or (2) the date set forth in the an SIX MONTHS from the mailing date of FILED WITHIN TWO MONTHS OF THE te on which the petition under 37 CFR 1.1 sion and the corresponding amount of the statutory period for reply originally set in	f the final rejection. E FINAL REJECTION. See MPEP  136(a) and the appropriate extension fee e fee. The appropriate extension fee under the final Office action; or (2) as set forth in				
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.						
2. The proposed amendment(s) will not be entered b	ecause:					
(a) Ithey raise new issues that would require further consideration and/or search (see NOTE below);						
(b) ☐ they raise the issue of new matter (see Note below);						
(c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or						
(d) they present additional claims without canceling a corresponding number of finally rejected claims.						
NOTE: See Continuation Sheet.						
3. Applicant's reply has overcome the following rejection	tion(s):					
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).						
5. The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.						
6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.						
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims w						
The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed: none.						
Claim(s) objected to: none.	•					
Claim(s) rejected: <u>1-22</u> .						
Claim(s) withdrawn from consideration: none.						
8. The drawing correction filed on is a) approved or b) disapproved by the Examiner.						
9. Note the attached Information Disclosure Stateme	nt(s)( PTO-1449) Paper No(s).	— (A)				
10. Other:		W. DAVID COLEMAN PRIMARY EXAMINER				

## Continuation Sheet (PTOL-303) 110/602,194

Application No.

Continuation of 2. NOTE: The proposed amendment changing the scope of independent claims 1, 9, and 16 (i.e. ", wherein the silicon nitride layer is formed from silicon in the silicon wafer and nitrogen from the dissociated nitrogen-containing gas, and wherein the silicon nitride layer so formed has a thickness of less than 5 nm") raised new issues requiring further consideration and new search.

Continuation of 5. does NOT place the application in condition for allowance because: Applicant contends that the reference, Suzuki et al. (U.S. Patent 5,585,148), herein known as Suzuki does not teach nor suggest that a nitrogen-containing gas is dissociated by an excimer lamp.

In response to Applicant's contention that Suzuki does not teach nor suggest that a nitrogen-containing gas is dissociated by an excimer lamp, Examiner respectfully disagrees. Since the light from the illumination system 10 having a xenon lamp as the light source through the light introduction window 11 (col. 12, lines 19-23 and FIGS. 1-6), which is equivalent to an excimer lamp, this light source would provide sufficient energy to dissociate NH3 into N or N2. Furtheremore, as disclosed by Suzuki, the resulting layer is a SiN layer was formed uniformly with high quality on the substrate 2 (col. 9, lines 54-56). Hence, it is inherent that the nitrogen-containing gas NH3 (col. 9, lines 32-57) was dissociated by the light source from the illumination system to produce the SiN layer. For these reasons, Examiner holds the rejection proper.

Applicant's remaining argument relies on the proposed amendment which has not been entered.